

AMENDMENTS TO THE SPECIFICATION

Please delete the paragraph beginning at page 4, line 28, which starts with "According to one aspect of."

Please replace the paragraph beginning at page 4, line 30 with the following amended paragraph:

According to ~~another~~ one aspect of the present invention there is provided an apparatus for controlling an optical wavelength of a control target light outputted from a variable wavelength light source, comprising: a wavelength scanning unit for scanning at a prescribed period the control target light entered from the variable wavelength light source and obtaining optical pulses having a phase corresponding to the optical wavelength of the control target light: and a phase detection unit for detecting a phase difference between a phase of the optical pulses and a phase corresponding to a reference optical wavelength, and controlling the variable wavelength light source by feeding back the phase difference to the variable wavelength light source such that the optical wavelength of the control target light is controlled by an optical frequency pulling with respect to the reference optical wavelength according to the phase difference.

Please replace the paragraph beginning at page 29, line 1 with the following amended paragraph:

The optical phase locked loop 50 comprises an optical frequency shifter 51 for shifting the optical frequency of the control target light, an optical coupler 52 with two inputs and two outputs for coupling the optical frequency shifted control target light and the reference light, an optical splitters 53-1 and 53-2 for splitting a part of the combined lights outputted from the optical coupler 52, a balanced receiver 54 for outputting a phase error signal proportional to a phase difference between coupled lights splitted by the optical splitters 53-1 and 53-2, a low-pass filter 55

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for outputting a low frequency component of the phase error signal, and a control circuit 56 for controlling the optical frequency shifter 51 according to the output signal of the low-pass filter 55.